TOTO90 "EEE2860

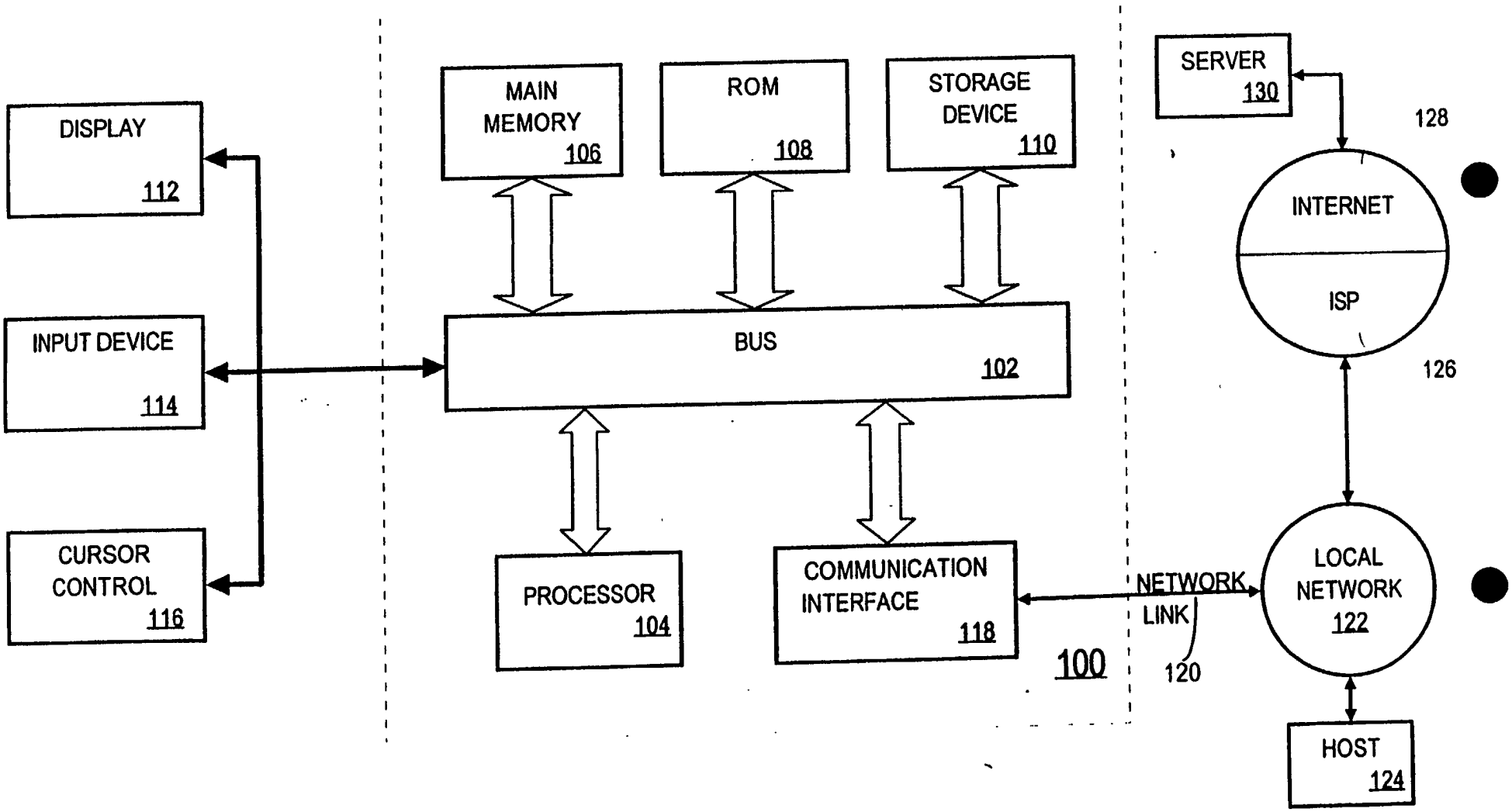


FIG. 1

Docket: 5681-0004

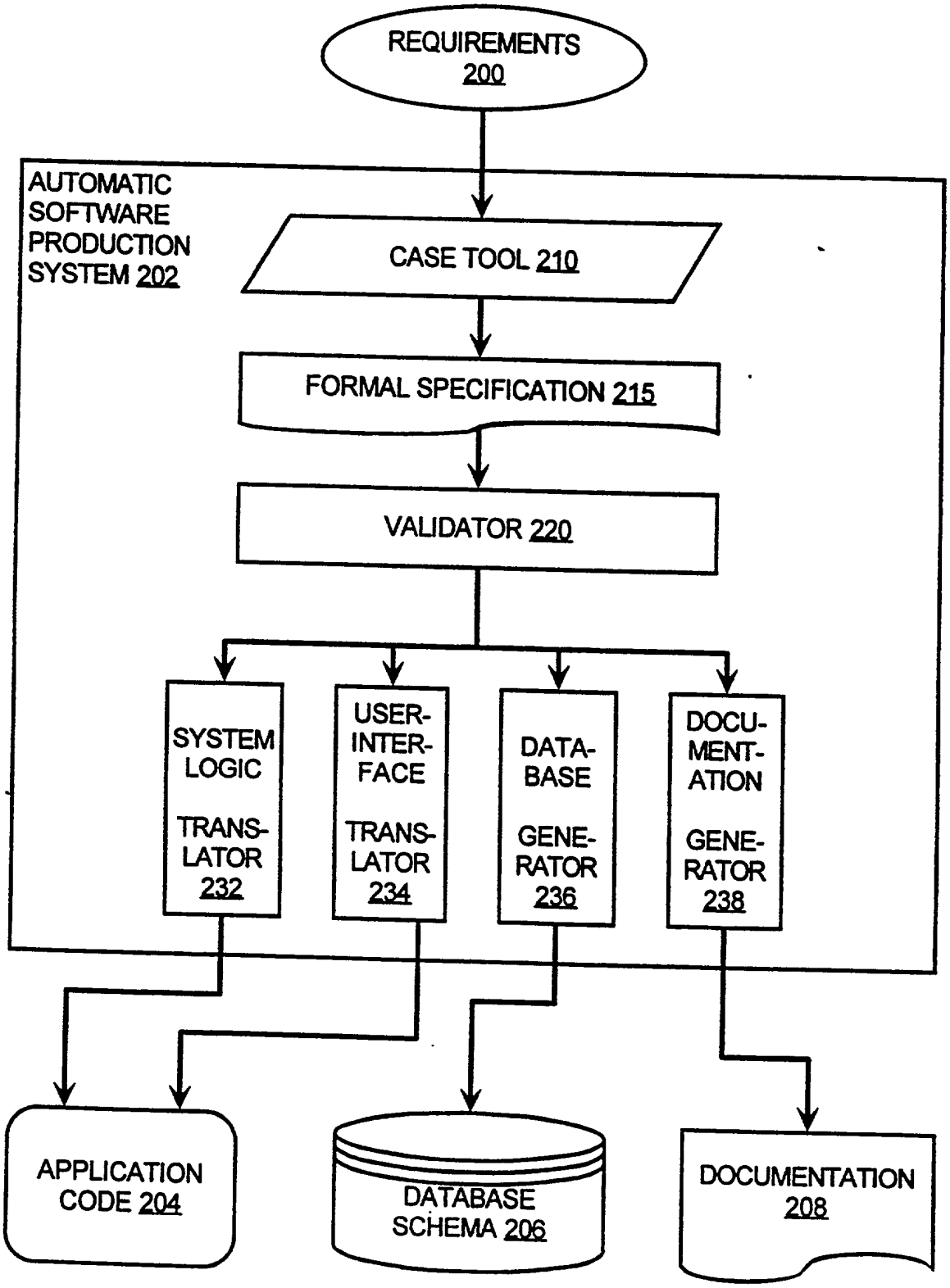


FIG. 2

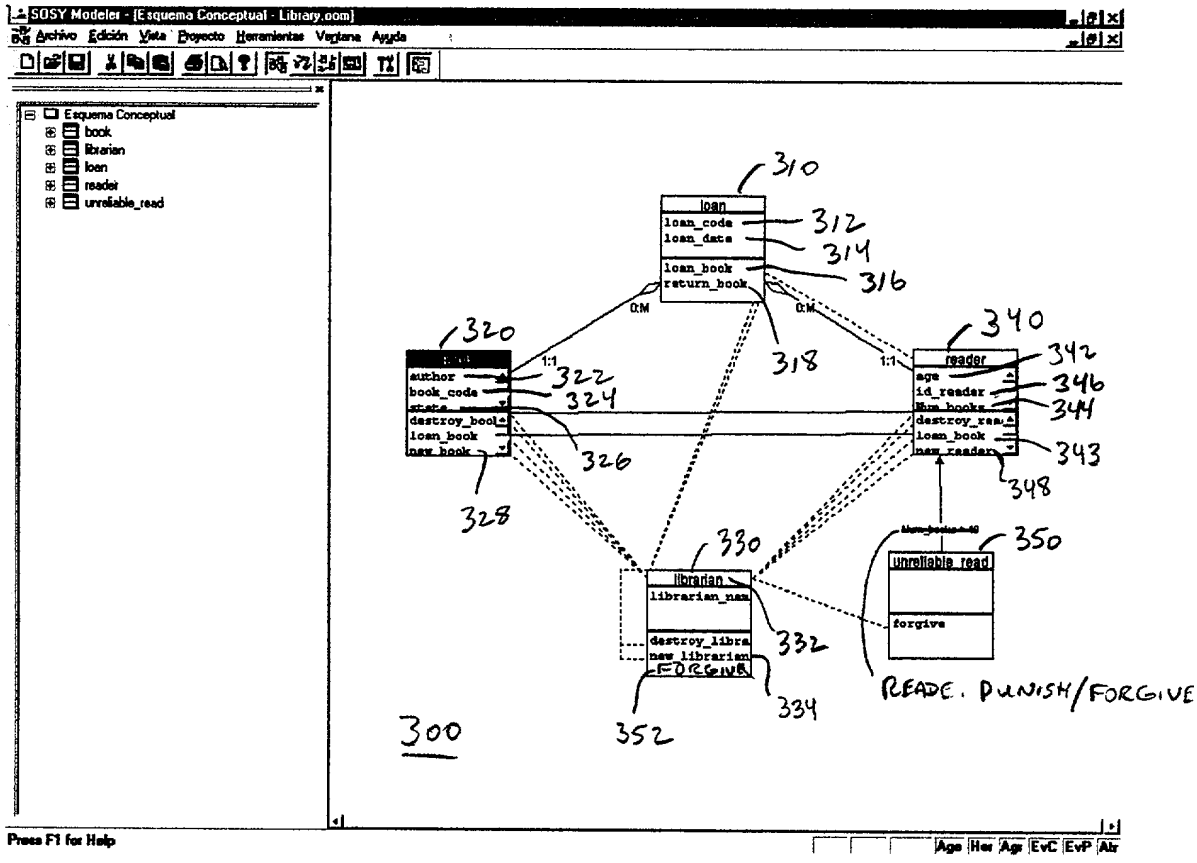

SOSY Modeler - [Esquema Conceptual - Library.oom]
Archivo Edición Vista Proyecto Herramientas Ventana Ayuda
Esquema Conceptual
book
librarian
loan
reader
unreliable_read
loan
loan_code
loan_date
loan_book
return_book
author
book_code
destroy_book
loan_book
reader
age
id_reader
loan_book
librarian
librarian_nam
destroy_libra
new_librarian
FORGIVE
unreliable_read
forgive
0:M
1:1
310
312
314
316
318
320
322
324
326
328
330
332
334
340
342
346
344
343
348
350
352
300
READER. PUNISH/FORGIVE
Press F1 for Help

FIG. 3

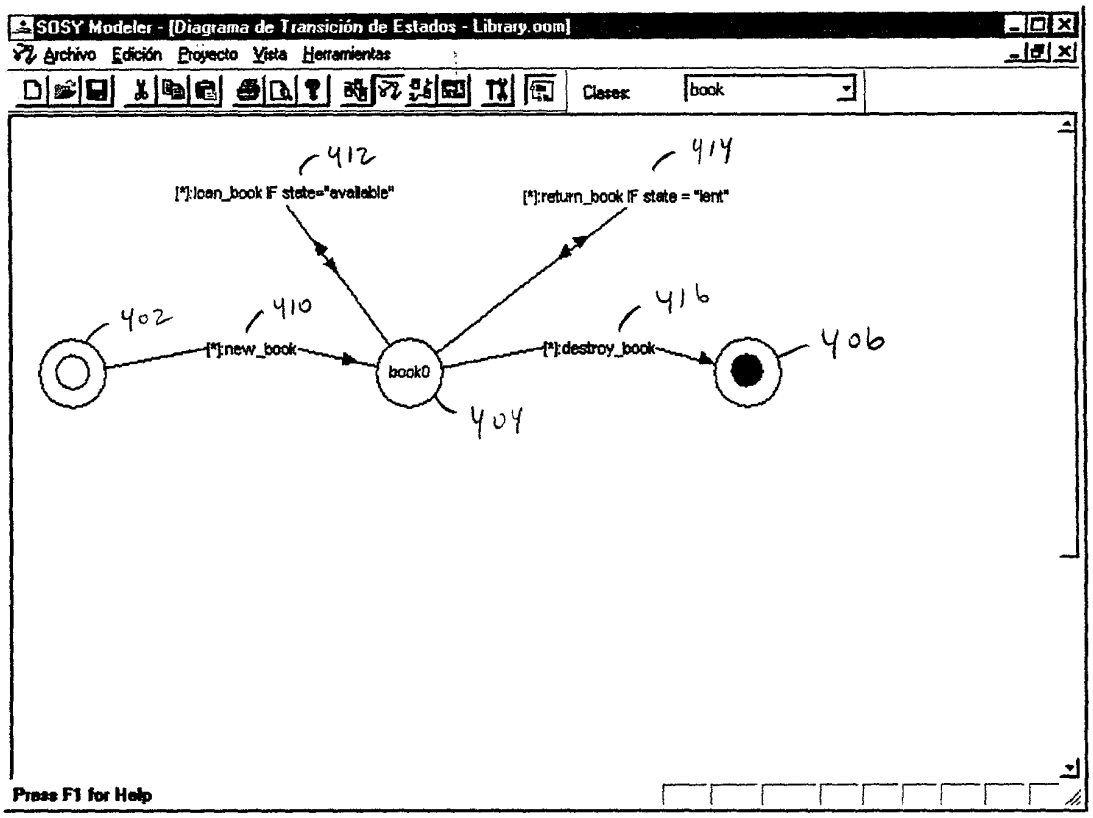


FIG. 4A

Docket: 5058-2-2-2-2-2

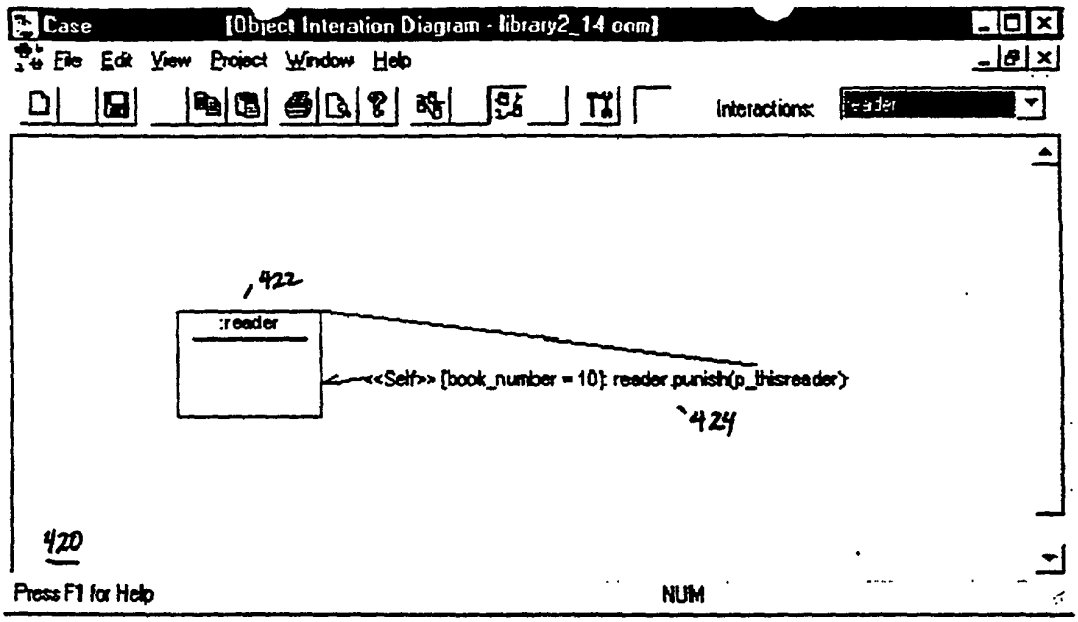


FIG. 4B

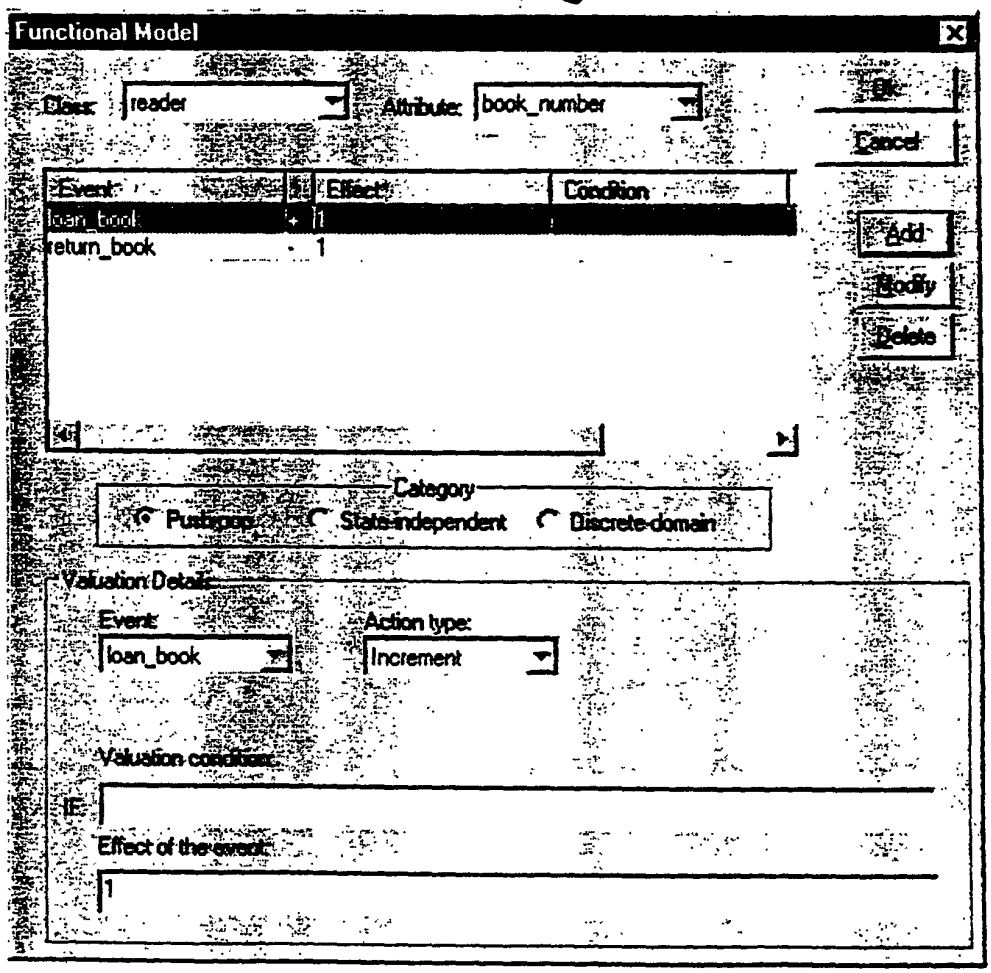


FIG. 5

5,897,638 - 06-04-99

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES OF SYSTEM LOGIC TRANSLATORS WILL PERFORM

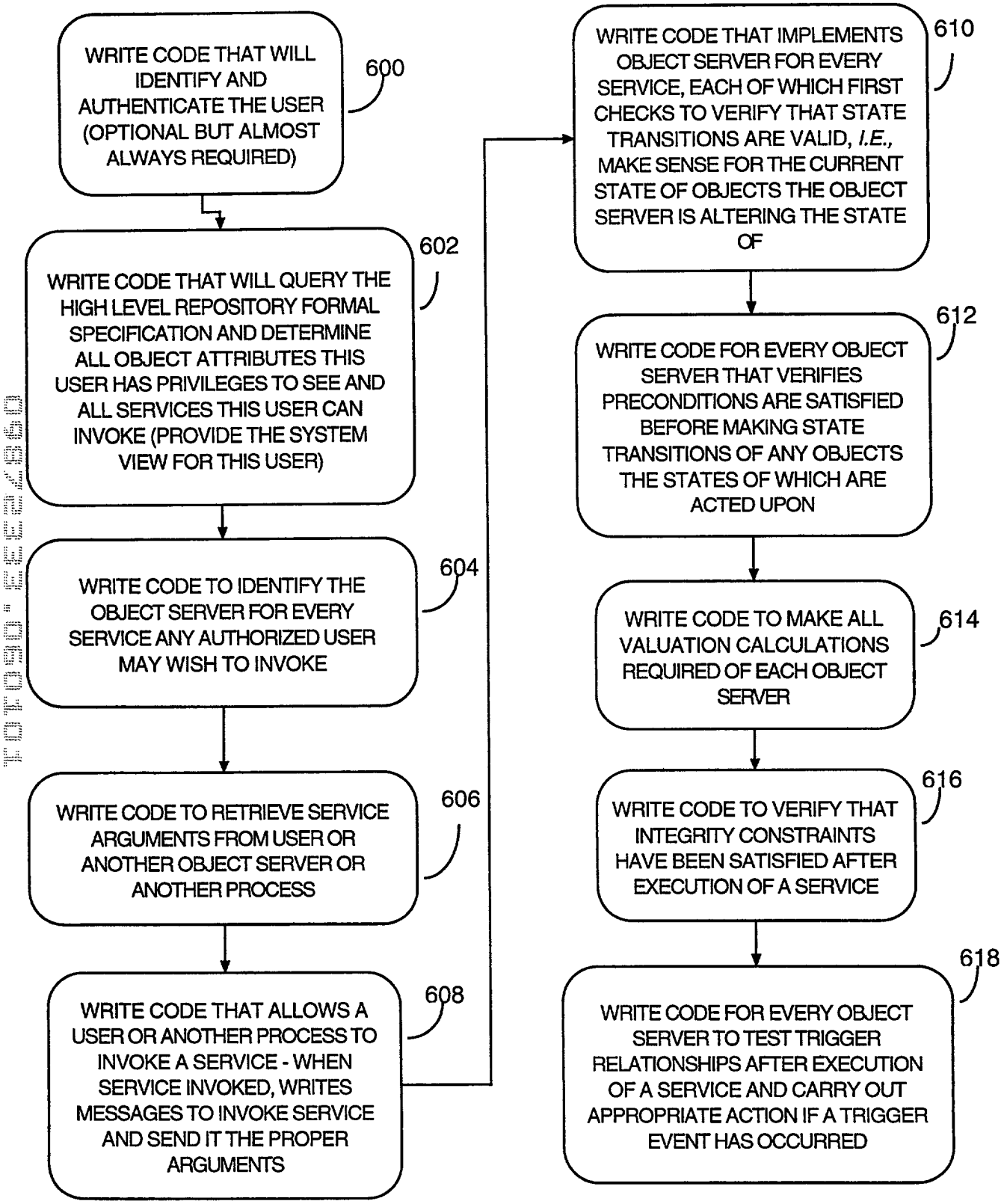


FIG. 6

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE USER INTERFACE TRANSLATOR SUBGENUS WILL PERFORM

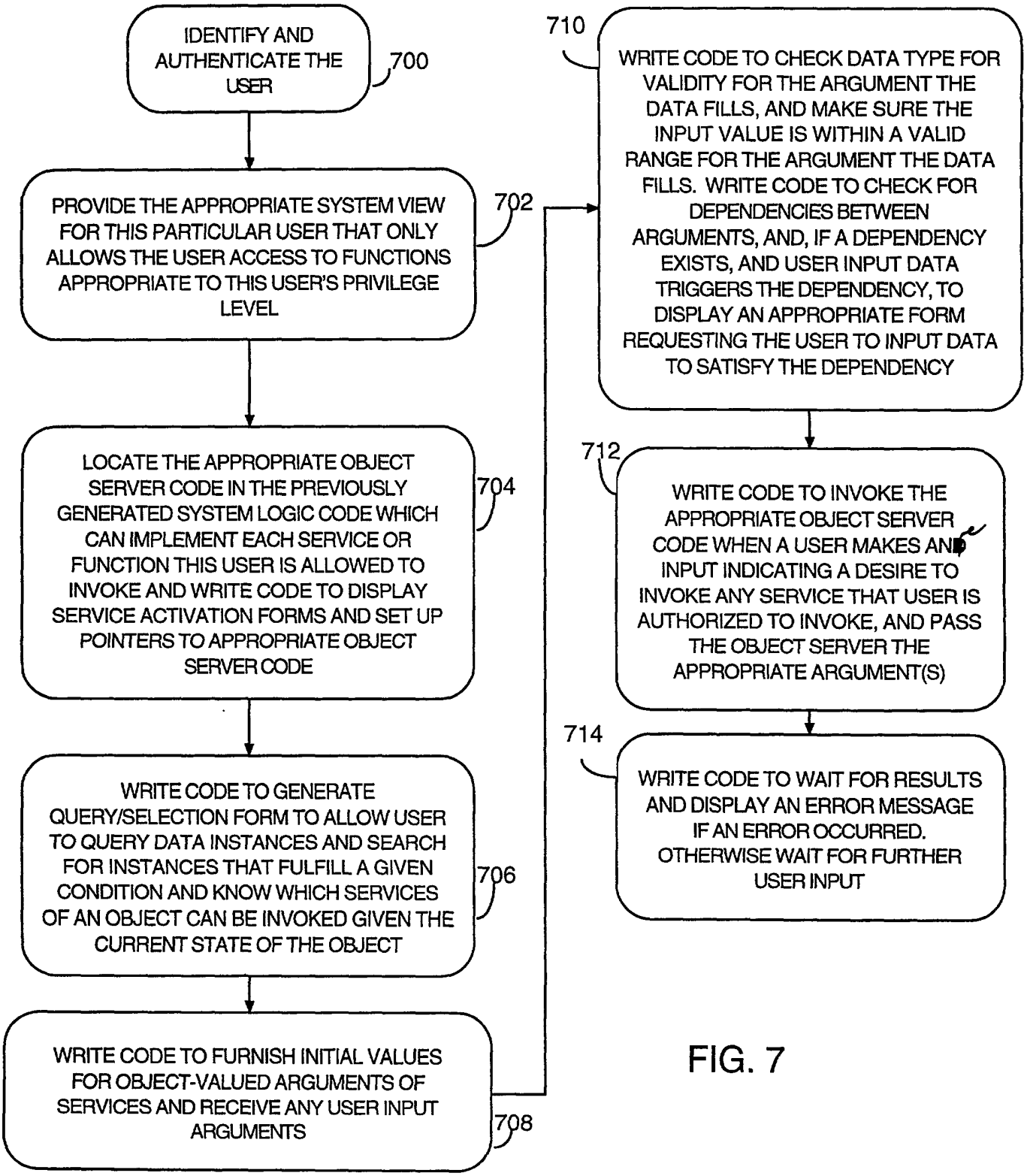


FIG. 7

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DATABASE GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

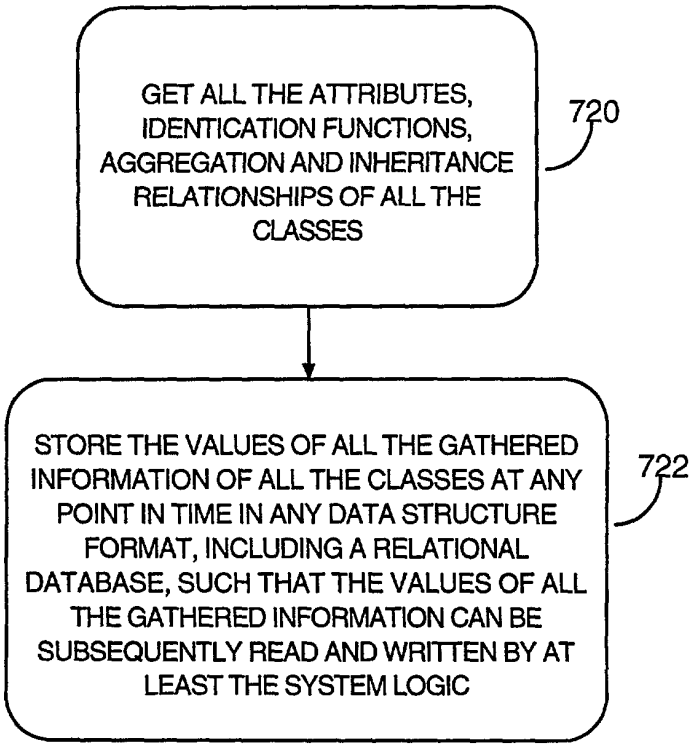
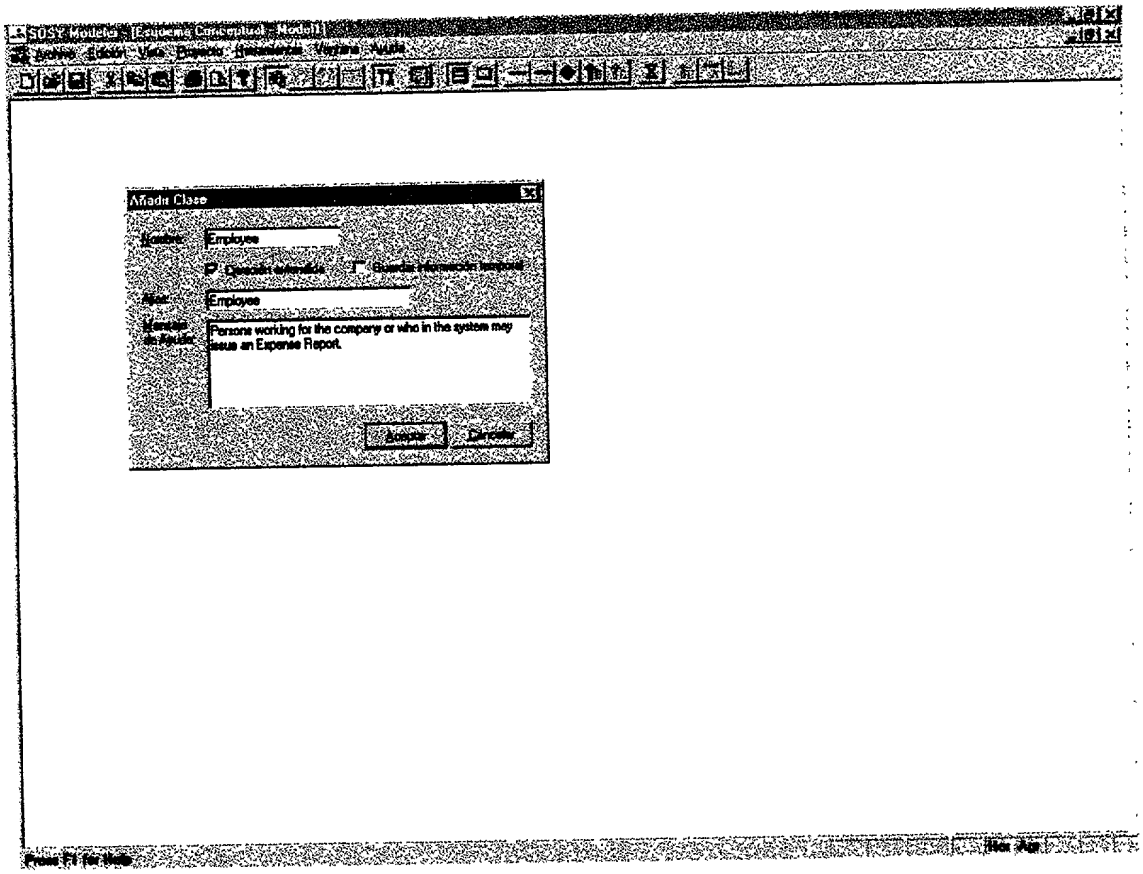
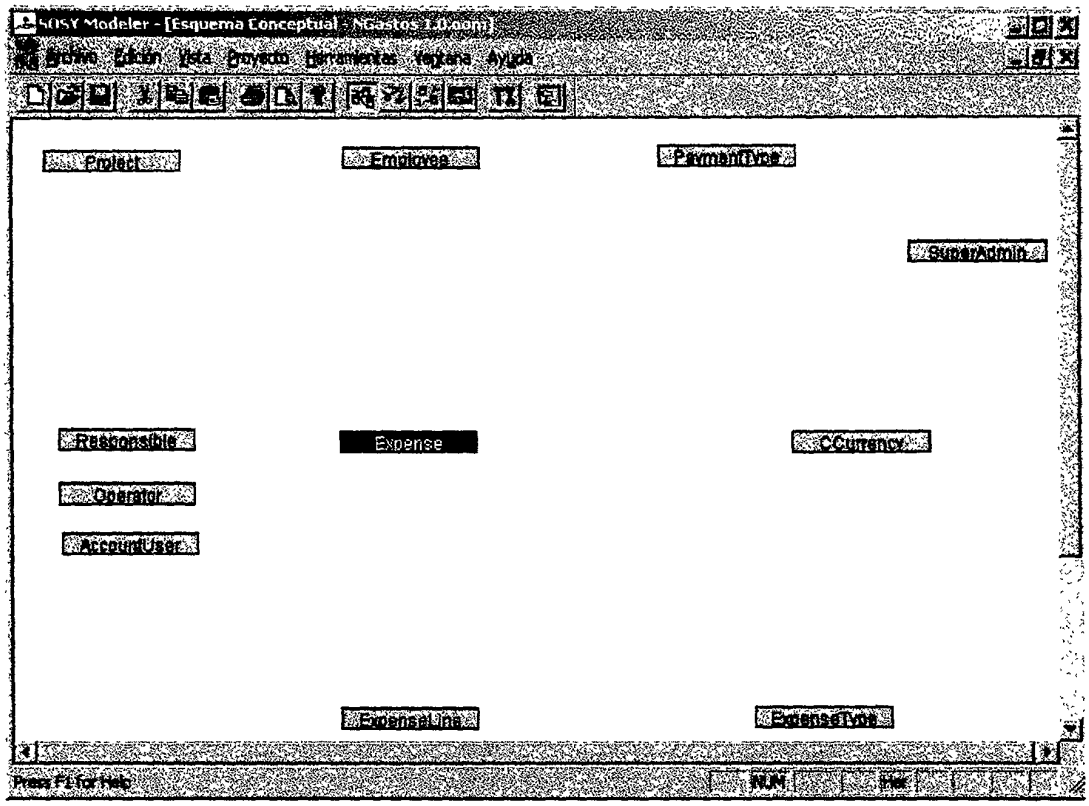


FIG. 8



class creation dialog

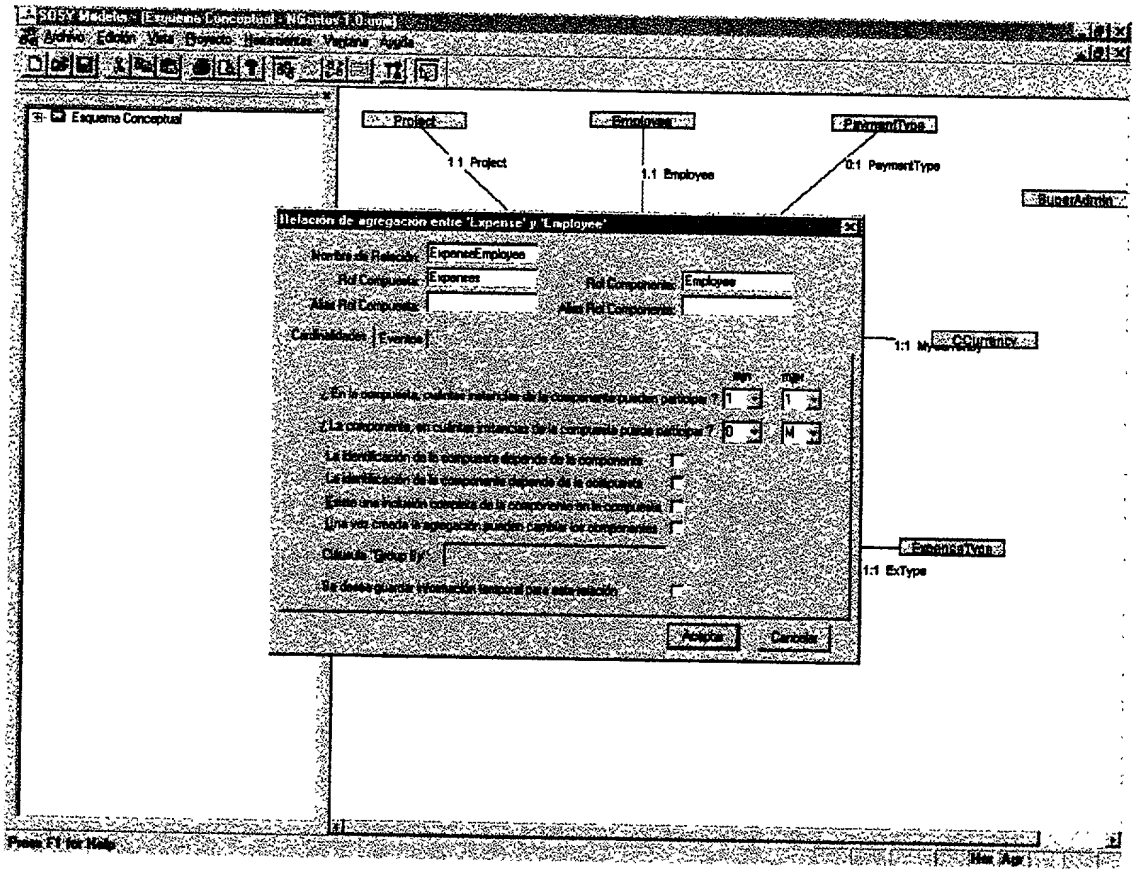
FIG. 9A



DIALOG SHOWING ALL CLASSES NEEDED & CREATED IN EXPENSE MANAGEMENT SYSTEM

FIG. 9B

Document ID: 0000000

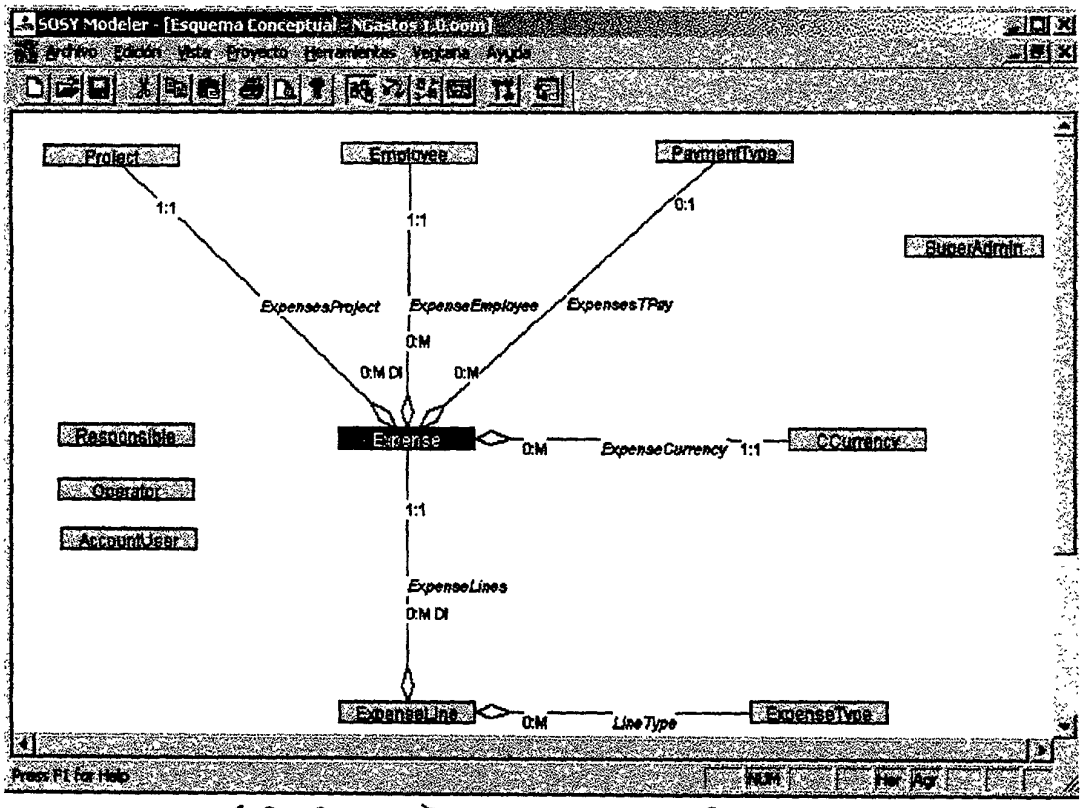


dialog to create and modify relationships between classes

FIG. 9C

EXHIBIT 1003

figure shows relationships found with all their properties indicated.



GRAPHIC DIALOG TO CREATE RELATIONSHIPS BETWEEN CLASSES AND GRAPHICALLY SHOW THE RELATIONSHIPS SO CREATED

FIG. 10

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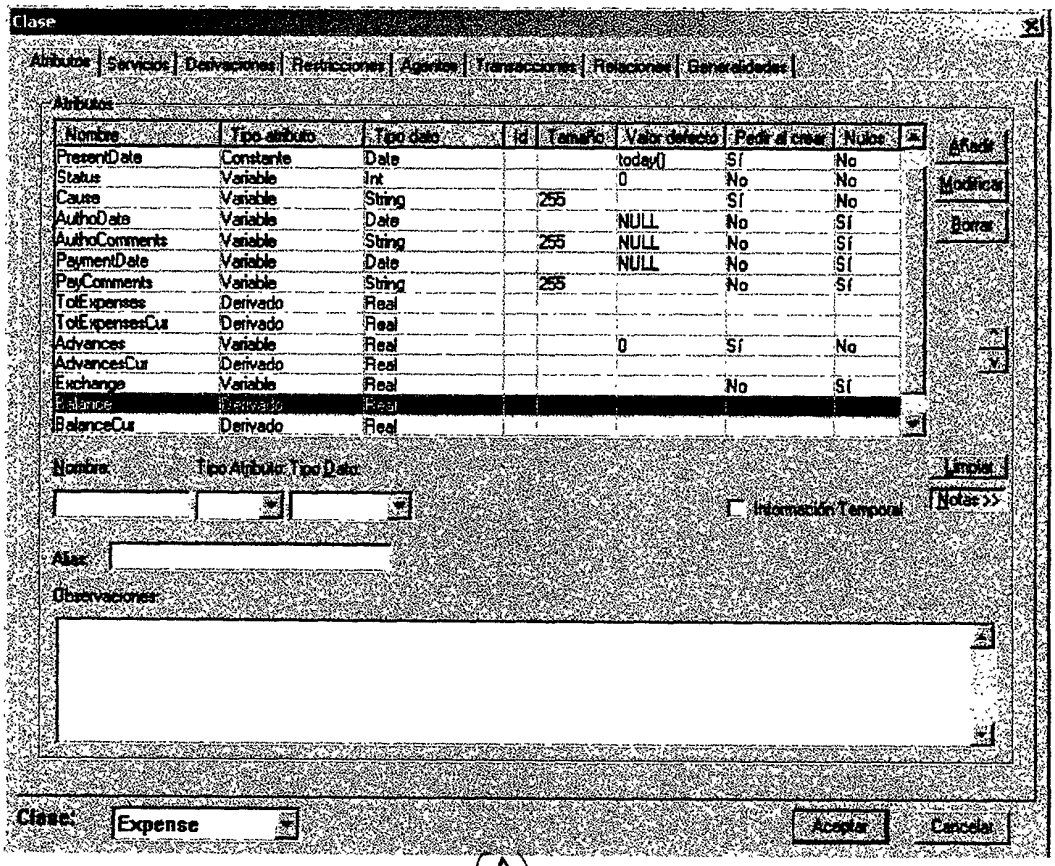
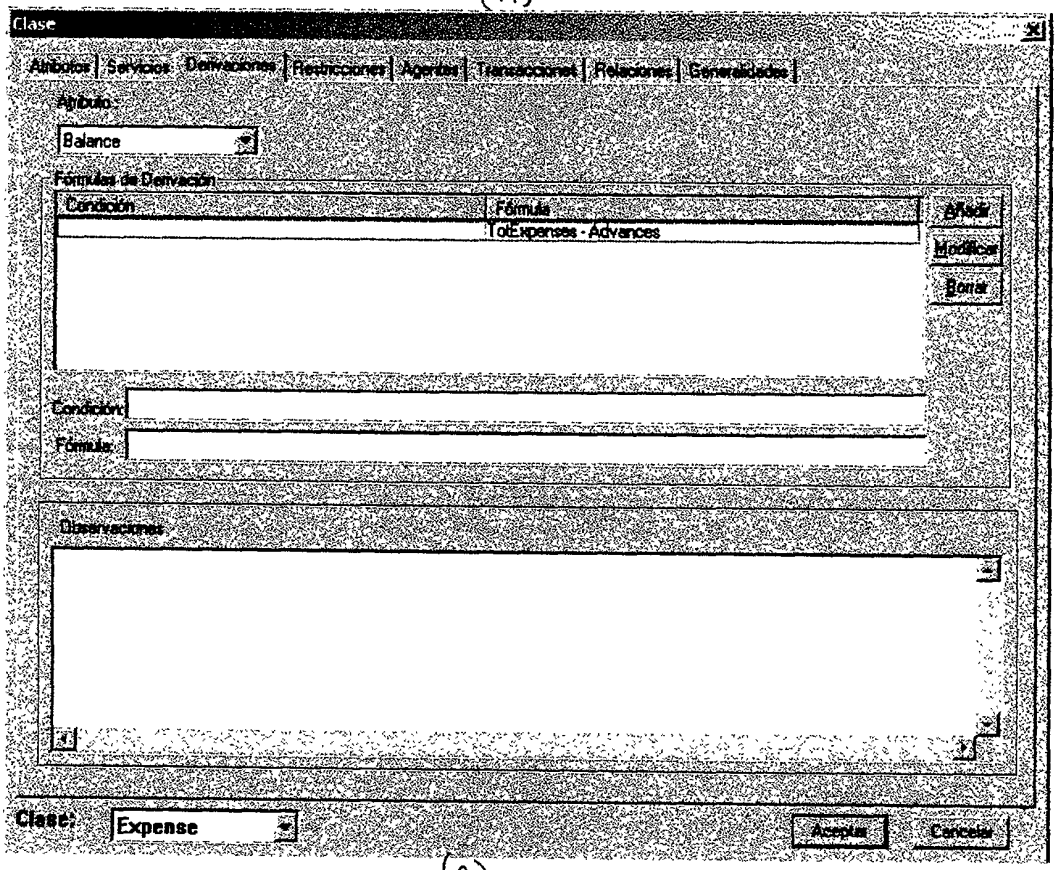
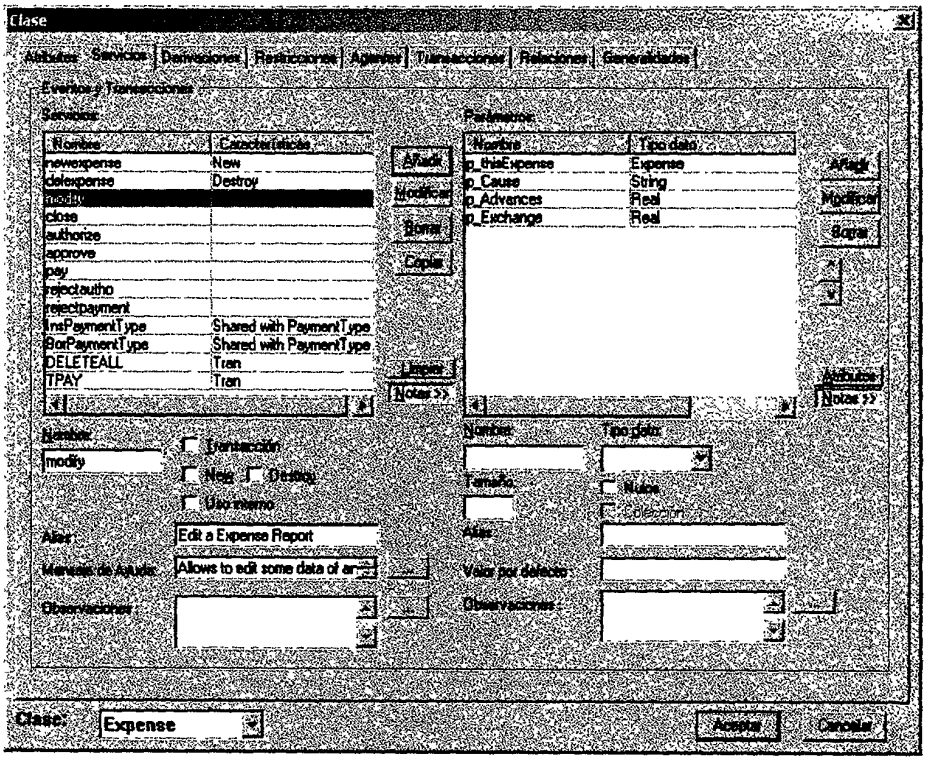

Clase
Atributos | Servicios | Derivaciones | Restricciones | Agentes | Transacciones | Relaciones | Generalidades
Atributos:
Nombre | Tipo atributo | Tipo dato | Id | Tamaño | Valor defecto | Pedir al crear | Nulos
PresentDate | Constante | Date | today() | Sí | No
Status | Variable | Int | 0 | No | No
Cause | Variable | String | 255 | Sí | No
AuthoDate | Variable | Date | NULL | No | Sí
AuthoComments | Variable | String | 255 | NULL | No | Sí
PaymentDate | Variable | Date | NULL | No | Sí
PayComments | Variable | String | 255 | No | Sí
TotExpenses | Derivado | Real
TotExpensesCur | Derivado | Real
Advances | Variable | Real | 0 | Sí | No
AdvancesCur | Derivado | Real
Exchange | Variable | Real | No | Sí
Balance | Derivado | Real
BalanceCur | Derivado | Real
Añadir
Modificar
Borrar
Nombre: Tipo Atributo: Tipo Dato:
Información Temporal
Limpiar
Notas >>
Alias:
Observaciones:
Clase: Expense
Aceptar
Cancelar

(A)


Clase
Atributos | Servicios | Derivaciones | Restricciones | Agentes | Transacciones | Relaciones | Generalidades
Atributo:
Balance
Fórmulas de Derivación:
Condición | Fórmula
TotExpenses - Advances
Añadir
Modificar
Borrar
Condición:
Fórmula:
Observaciones:
Clase: Expense
Aceptar
Cancelar

(B)

FIG. 11

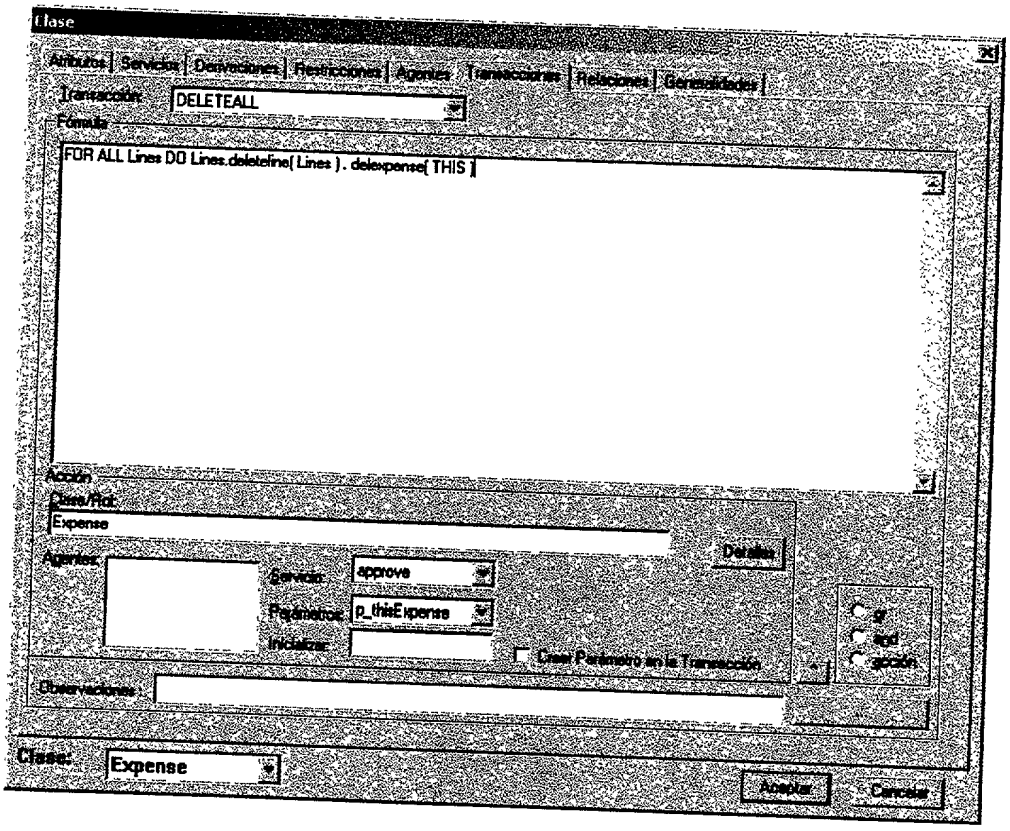


SERVICES IN CLASS "EXPENSE"

FIG. 12

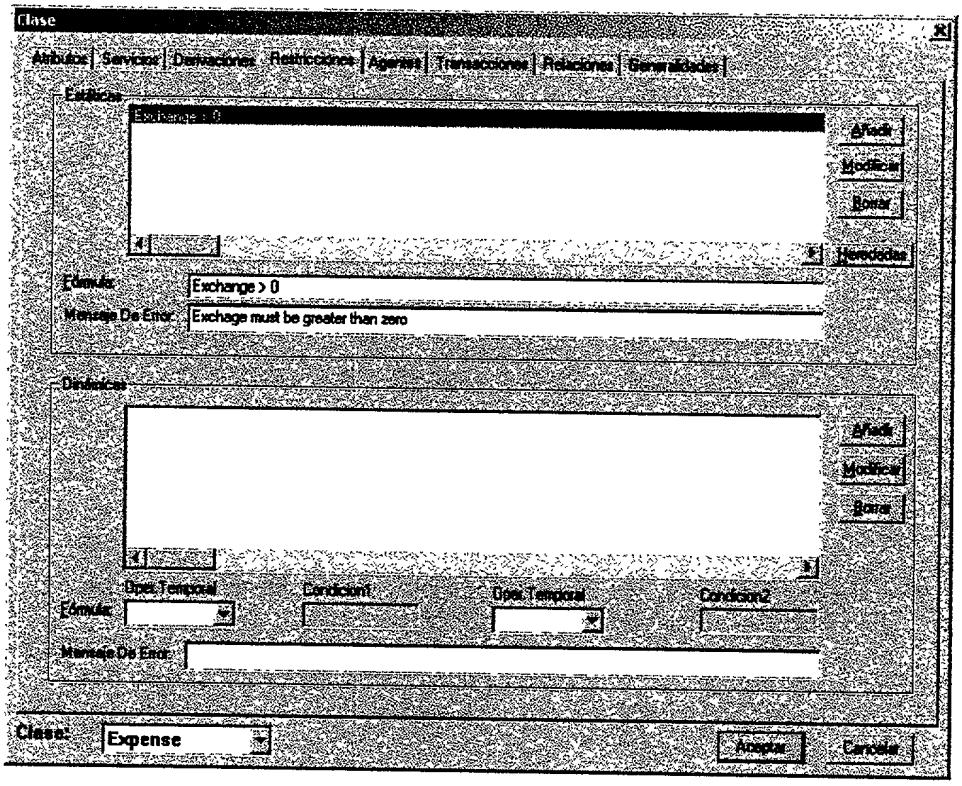
EXHIBIT 3 PAGE 9 OF 9

Next figure shows the formula for the "DELETEALL" transaction:



DIALOG TO DEFINE FORMULA FOR "DELETEALL" TRANSACTION

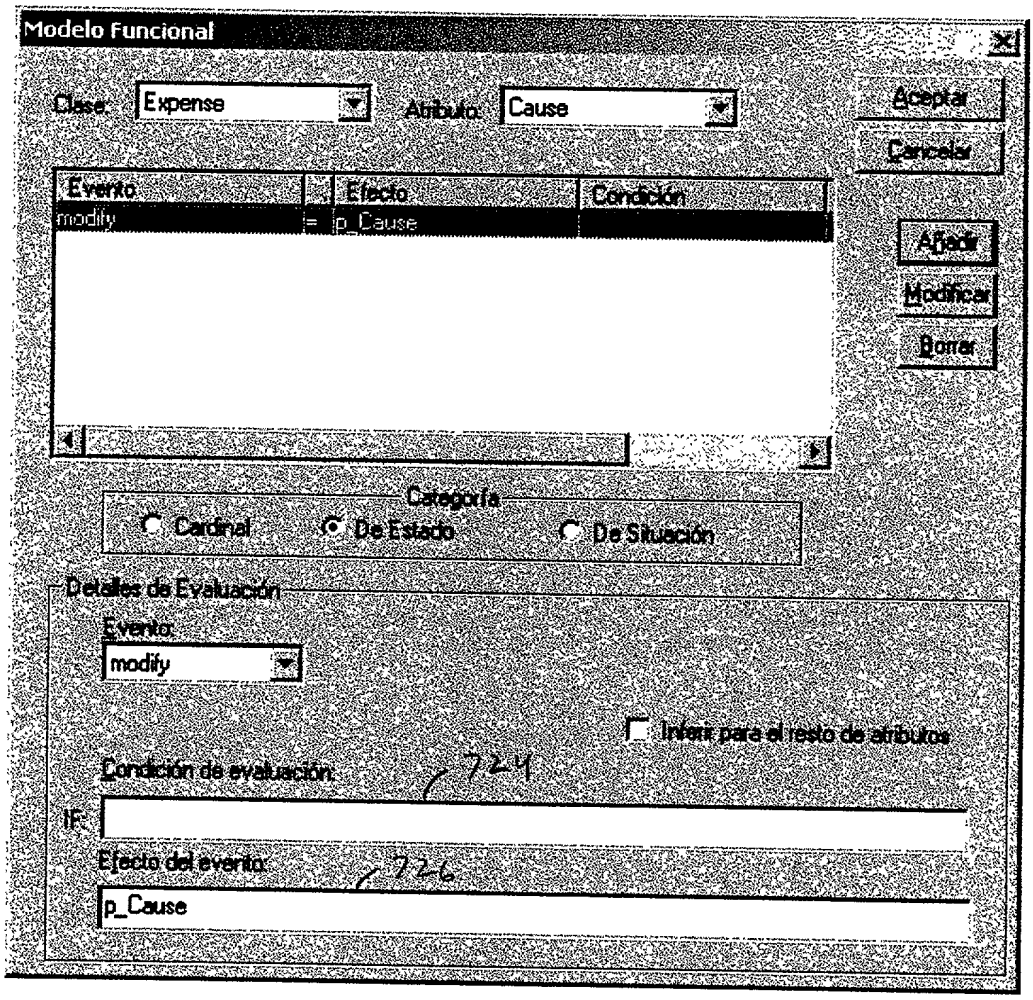
FIG. 13



INTEGRITY CONSTRAINTS OF EXPENSE CLASS

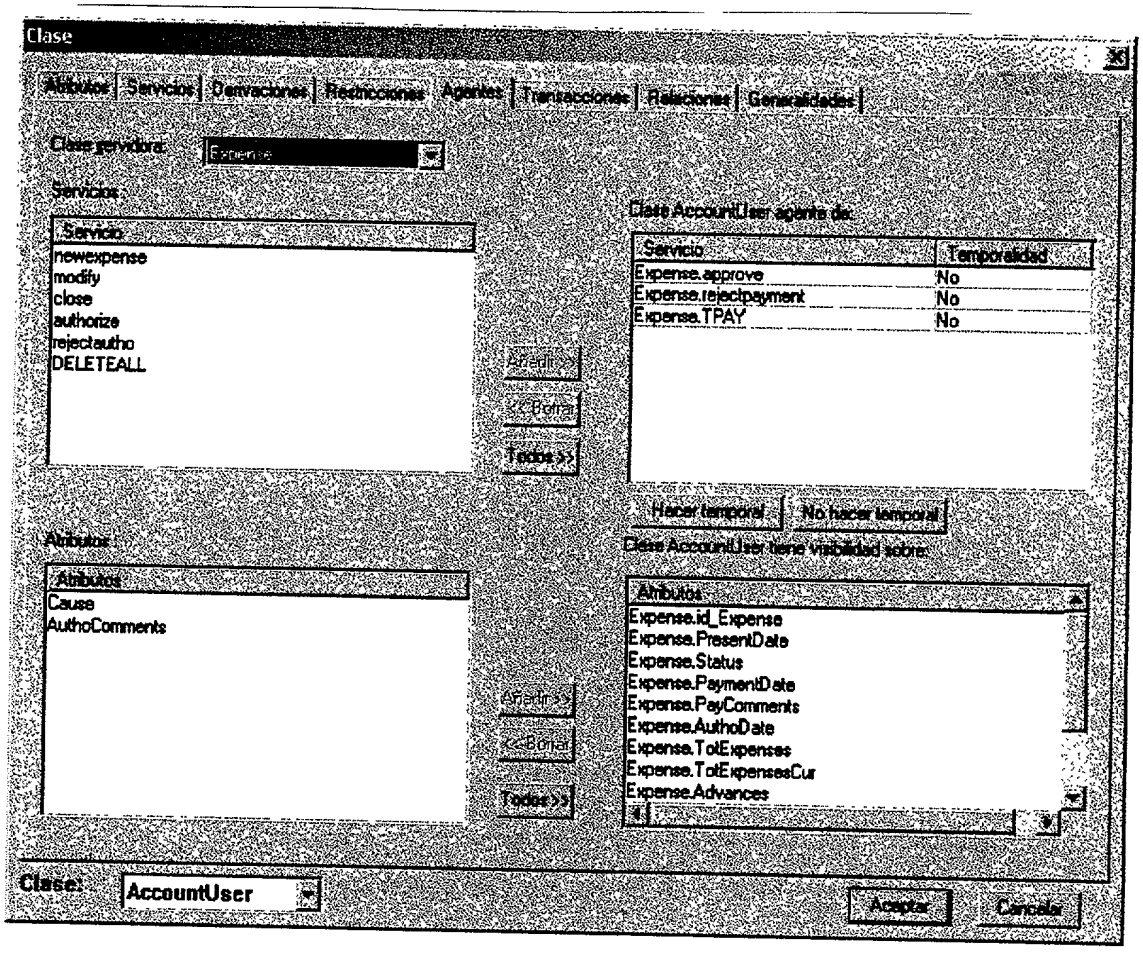
FIG. 14

The value of the attribute "Cause" will be loaded with the value of the argument "p_Cause" of the event "modify" when "modify" was executed.



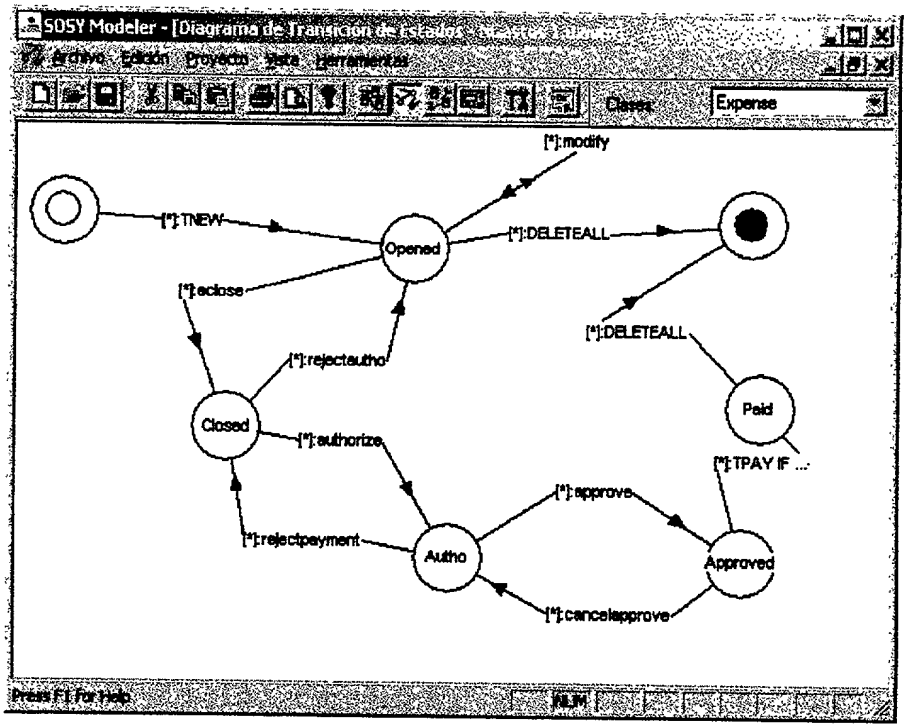
DIALOG BOX TO CREATE EVALUATION OF "CAUSE" ATTRIBUTE WITH THE "MODIFY" EVENT TO FORM PART OF FUNCTIONAL MODEL

FIG. 15



AGENT RELATIONSHIP DIALOG THAT CAN BE USED TO SET WHICH SERVICES "ACCOUNT USE" CAN ACCESS AND VISIBILITY OF CLASS ATTRIBUTES FOR THIS USER

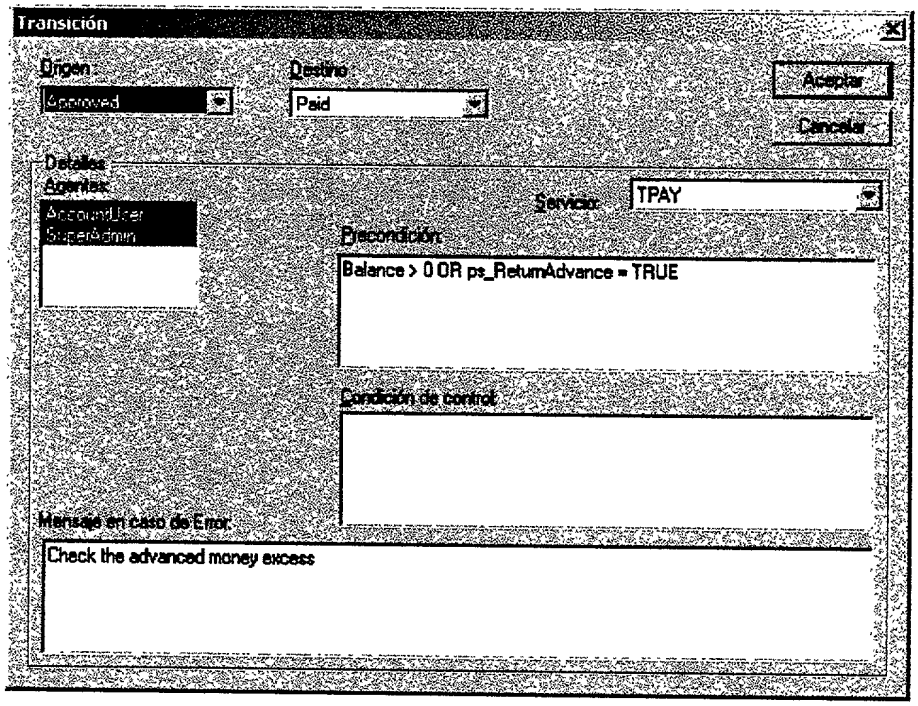
FIG. 16



STATE TRANSITION DIAGRAM FOR CLASS "EXPENSE"

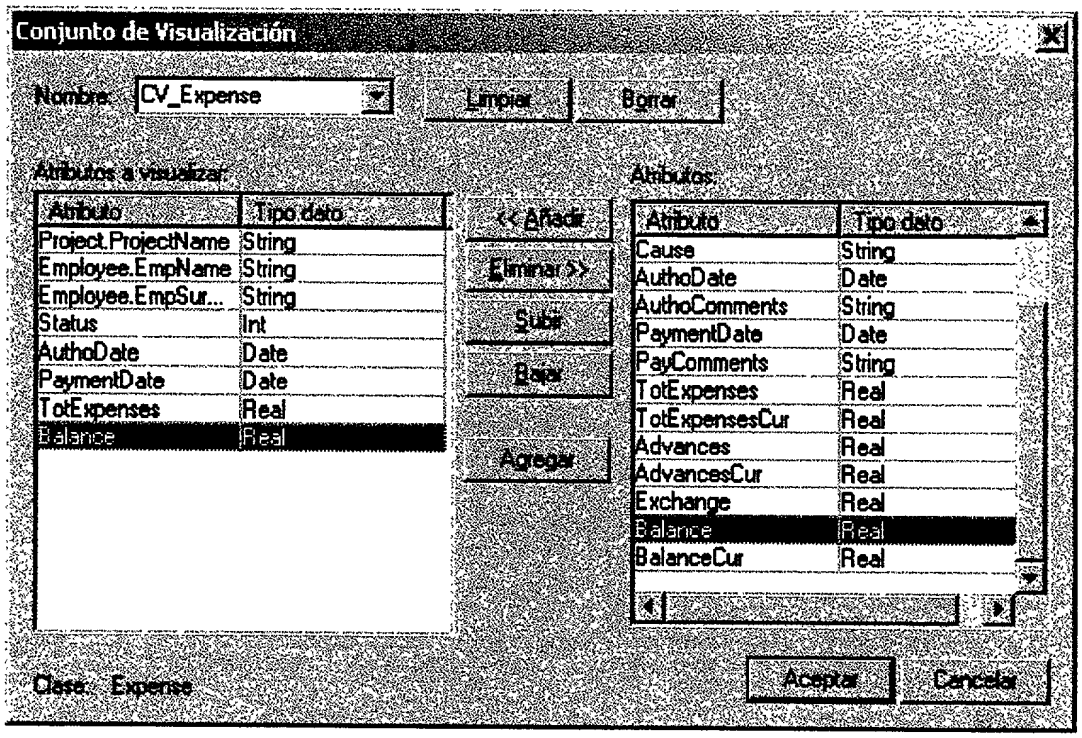
FIG. 17

According to last paragraph of Procedure, if the Advances are greater than total expenses, the system must force the confirmation of the account user. It is expressed as a precondition in the "TPAY" transaction. Next figure shows it.



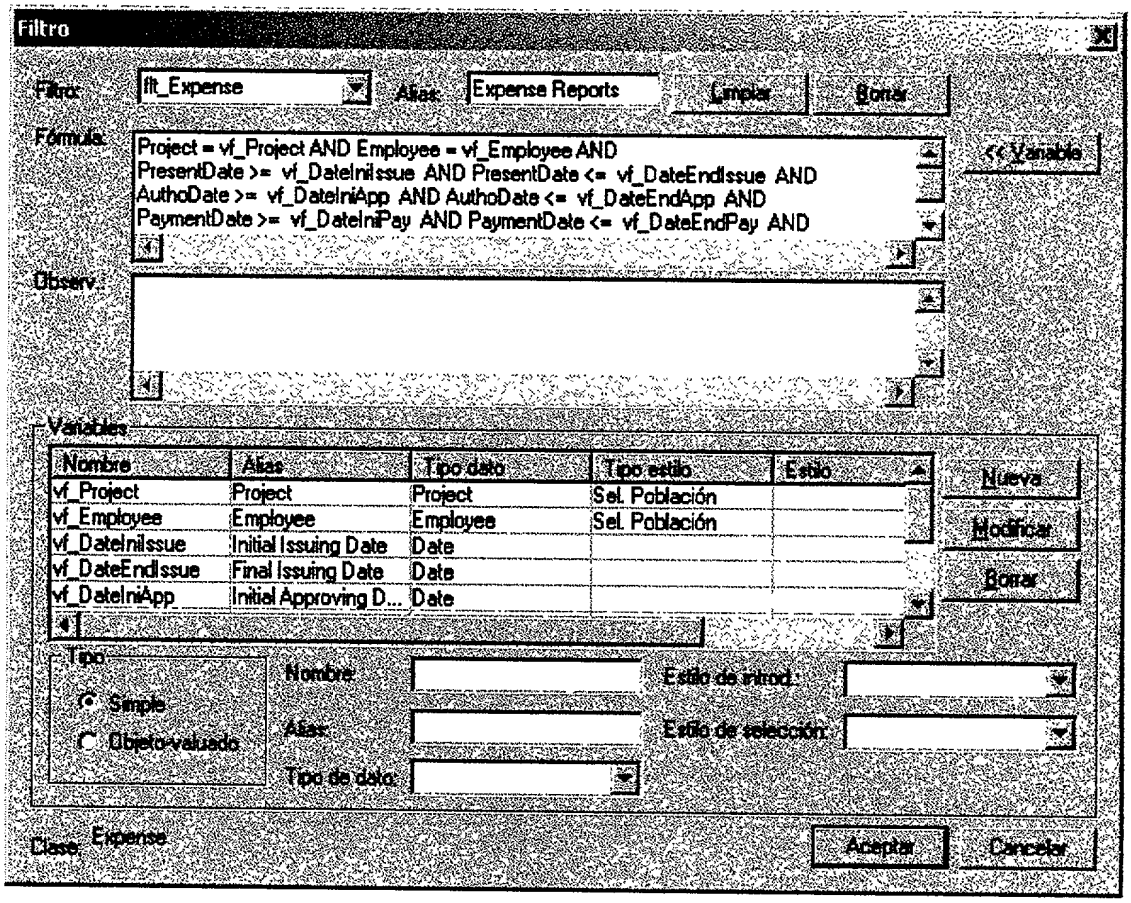
DIALOG BOX TO MODEL PRECONDITION

FIG. 17



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH A SET OF ATTRIBUTES TO BE DISPLAYED FOR THE "EXPENSE" CLASS

FIG. 19



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH THE SEARCHING CRITERIA FOR THE EXPENSE CLASS AND TO ESTABLISH THE FILTER FORMULA TO USE AND THE VARIABLES TO REQUEST THE USER TO ENTER

FIG. 20

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DOCUMENTATION GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

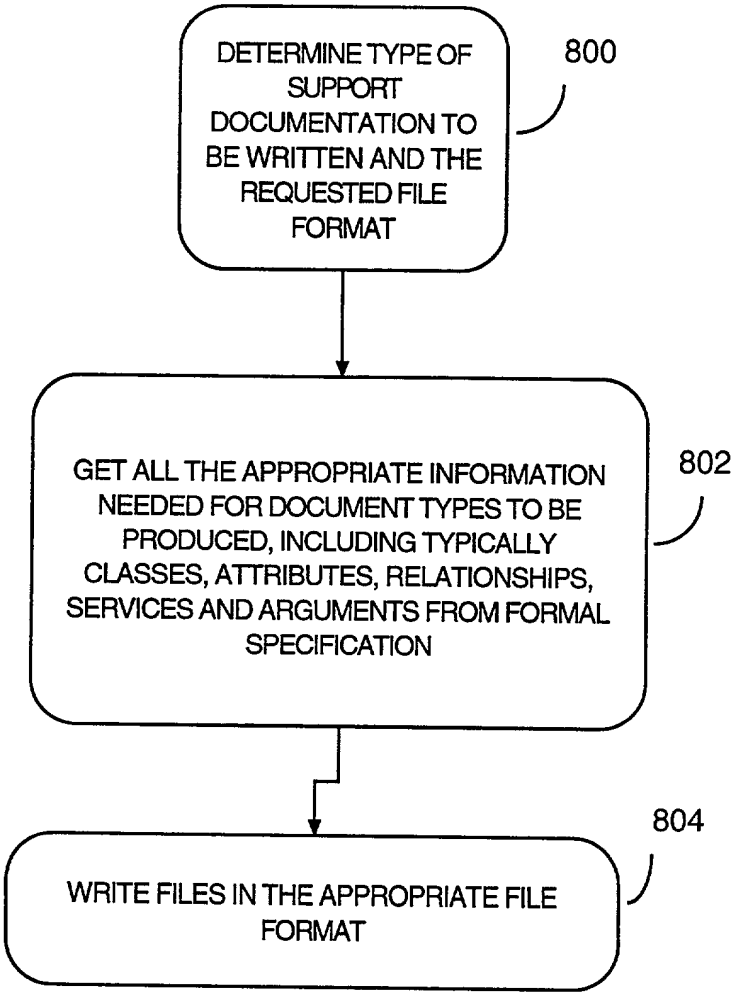


FIG. 21